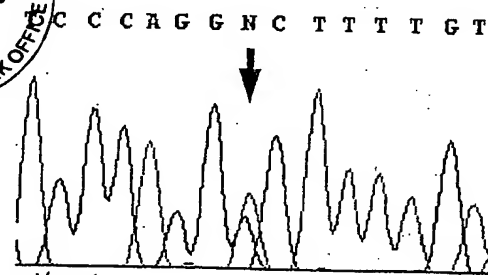


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CYP3A4 polymorphisms



Exon 3 (G6004A; Gly56Asp)



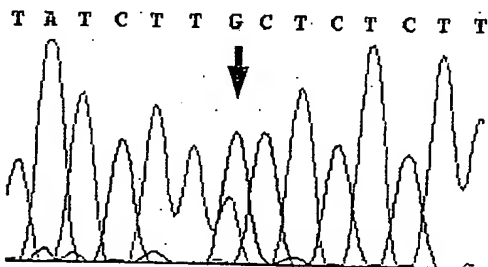
wt/mut

Oligonucleotide 3A450F (forwards)

SEQ ID NO:52

(SEQ ID NO:53*)

Intron 7 (T→G)



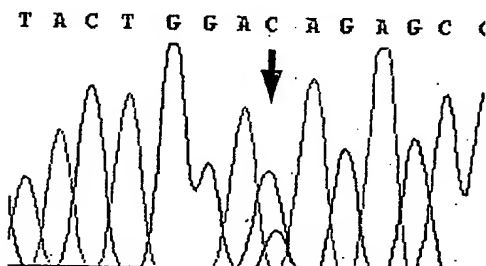
wt/mut

Oligonucleotide 3A433F (forwards)

SEQ ID NO:58

(SEQ ID NO:59*)

A CYP3A7 exon 11 polymorphism (C1229G; Thr409Arg)



wt/mut

Oligonucleotide 3A742F (forwards)

SEQ ID NO:124

Fig. 4

* = reverse complement

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SEQ ID NO:128

CYP3A4

Exon 3 (g.6004G>A, G56D)

CCTCTAACTGCCAGCAAGTCTGATTTTCATTGGCTTCGACTGTTTTTCAT→CCCCAATTAGAGGCAG
GGTTAAGTACATTAAAAATAATAATCAAATATTATTTTGTTCCTCCCAGGG→ACTTTTGTATGT
TTGACATGGAATGTCATAAAAAAGTATGGAAAAGTGTGGGGGTGAGTATTCTGGAAACTTCCATT
GGATAGACTTGTCTATGATGAGTTACCCCACTGCACAGAGGACAGTCTCAGCCC

Exon 4 (Primer 3A4-52F and 3A4-37R)

SEQ ID NO:130

AGTCTGGCTTCCTGGGTTGGGCTCCAGCTGTAGAATAAGGCTGTTGATGTTTAA
TCAACTCTGTTTTTTCACACAGCTTTTATGATGGTCAACAGCCTGTGCTGGCTA
TCACAGATCCTGACATGATCAAAACAGTGCTAGTGAAAGAATGTTATTCTGTCT
TCACAAACCGGAGGGTAAGCATTTCATGTGTTGAAATTAATACTGATTGATTAA
ATTTATATTTTGAAATTCTTATATATTCATAGACAGTTGCCTAAAAAATGTCCAGG
AAGGTTCCACGTCCACTTC

SEQ ID NO:132

Exon 5

CTACAACCATGGAGACCTCCACAACCTGATGTAGGACAAAATGTTTCTGCTTTGAA
CTCTAGCCTTTTGGTCCAGTGGGATTATGAAAAGTGCCATCTCTATAGCTGAG
GATGAAGAATGGAAGAGATTACGATCATTGCTGTCTCCAACCTTCACAGTGG
AAAACCTCAAGGAGGTATGAAAATAACATGAGTTTTAATAAGAACTTAAAGAATG
AATCTGGTGGGGACAGGTA

SEQ ID NO:134

Exon 7 (g.15753T>G)

GTCTGTCTTGACTGGACATGTGGCTTTCCTGATGCACGCATAGAGGAAGGATGG
TAAAAGGTGCTGATTTTAAATTTCCACATCTTCTCCACTCAGCGTCTTTGGGG
CCTACAGCATGGATGTGATCACTAGCACATCATTGGAGTGAACATCGACTCT
CTCAACAATCCACAAGACCCCTTTGTGGAAAACACCAAGAAGCTTTTAAGATT
TGATTTTTTGGATCCATTCTTCTCTCAATAAGTATGTGGACTACTATTTCTTTT
ATTTATCTTT→GCTCTCTTAAAAATAACTGCTTTATTGAGATATAAATCACCATGT
AATTCATCCACTTAAATATACAGTTCAGTGATTGTAGTACATTTGAAGATATGT
GTGACCATCATC

SEQ ID NO:136

Exon 9

GGAGATCAAGGACCACGCTTGATTTACTTCTGACTTCAGGAGCCACTTTCTG
TCAGTGAAATTTCTCTTTTGTCTTAGCACCGAGTGGATTTCTTCAGCTGATG
ATTGACTCTCAGAATTCAAAAGAACTGAGTCCCACAAAGGTAACCAGAGTGT
TTCTGAGGGGCTACTTGTGGGGCACTCAGAGGGGAAGGCCTTGTTCTGAAAATGTG
CAGGAAGTATTCCAGGATGATGAG

SEQ ID NO:138

CYP3A7

Exon 11 (C1229G Thr409Arg polymorphism)

CCAGTATGAGTTGTTCTCTGGAACCTTCTAACAGTTCAACAGTACTACATGGACTG
AGTTAAAAGTTAATTCAAAAATCTCAATTTATCCAAATCTGTTTCTTTCTTTTCAGG
CACCACCCACCTATGATACTGTGCTACAGTTGGAGTATCTTGACATGGTGGTG
AATGAAACACTCAGATTATTCCCAGTTGCTATGAGACTTGAGAGGGTCTGCAA
AAAAGATGTTGAAATCAATGGGATGTTTATTCCCAAAGGGGTGGTGGTGATGA
TTCCAAGCTATGTTCTTCATCATGACCCAAAGTACTGGAC→GAGAGCCTGAGA
AGTTCCTCCCTGAAAGGTAGGAGGCCCTGGGAAGGGAGCCCTCCCTGAACC
AGCCTGGTTCAAGCATATTCTGCCT

Fig. 6

SEQ ID NO:143

CYP3A4

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Exon 4 (Primers 3A4-52F and 3A4-100R)

AGTCTGGCTTCCTGGGTTGGGCTCCAGCTGTAGAATAAGGCTGTTGATGTTTAA
TCAACTCTGTTTTTTCACACAGCTTTTATGATGGTCAACAGCCTGTGCTGGCTA
TCACAGATCCTGACATGATCAAAACAGTGCTAGTGAAAGAATGTTATTCTGTCT
TCACAAACCGGAGGGTAAGCATTGATGTTGAAATTAAAATACTGATTGATTAA
ATTTATATTTTGAAATTCTTATATATTCATAGACAGTTGCCTAAAAAATGTCCAGG
AAGGTTCCACGTCCACTTCATCCTGTCCCC

SEQ ID NO:144

Exon 5 (g.13908G>A, R130Q)

CTACAACCATGGAGACCTCCACAACCTGATGTAGGACAAAATGTTTCTGCTTTGAA
CTCTAGCCTTTTGGTCCAGTGGGATTTATGAAAAGTGCCATCTCTATAGCTGAG
GATGAAGAATGGAAGAGATTACG→AATCATTGCTGTCTCCAACCTTCACCAGT
GGAAAACCTCAAGGAGGTATGAAAATAACATGAGTTTAAATAAGAACTTAAAGA
ATGAATCTGGTGGGGACAGGTA

SEQ ID NO:146

Exon 6 (g.14292G>A, V170I; g.14304G>C, D174H; g.14323C>T; g.14329G>T; g.14357T>G)
CCCTTTCCAAGGGGTAGTCCACTGAATTTGAGCTGCCTAAAAATGGTCTTTTATC
TTTATGTACAGAAAACACATCACAAAATTCATTATAAAATGTCACCTTACTGCTCCA
TGCTGGGGAAAGCCATGTCCTTCTGGGACTAGAGTCTGCACATTAACTATGGG
TGGTGTGTTGTGTTTGTGCTTAGATGGTCCCTATCATTGCCCAGTATGGAGATGT
GTTGGTGAGAAATCTGAGGCGGGAAGCAGAGACAGGCAAGCCTG→ATCACC
TTGAAAG→CAGTAAGTAGAAGCGCAGCC→TATGGGG→TTTCTGAGCTGTCTAT
GAACCCCTCCAGCT→GGCCTGCCATGGAGCTGATATTCCTGCTGTTGGGTTAT
TCCAGTGACCAGAC

SEQ ID NO:148

Exon10 (g.20230G>A)

CCCAGTGTACCTCTGAATTGCTTTTTCTATTCTTTTCCCTTAGGGATTTGAGGGCT
TCACTTAGATTTCTCTTCATCTAAACTGTGATGCCCTACATTGATCTGATTTACCT
AAAATGTCTTTCTCTCCTTTTCACTCTGTCCGATCTGGAGCTCGTGGCCCAAT
CAATTATCTTTATTTTTGCTGGCTATGAAACCACGAGCAGTGTTCTCTCCTTCAT
TATGTATGAACTGGCCACTCACCTGATGTCCAGCAGAACTGCAGGAGGAA
ATTGATGCAGTTTTACCCAATAAGGTGAGTGGATGG→ATACATGGAGAAGGAG
GGAGGAGGTGAAACCTTAGCAAAAATGCCTCCTCACCACCTCCCAGGAGAATT
TTATAAAAAGCATAATCACTGATTCTTCACTGACTCTATGTAGGAAGGCTCTG

SEQ ID NO:159

Exon 11 (g.21867C>T, T363M; g.21868G>A; g.21896C>T, L373F; g.22026C>T, P416L; g.22041C>T;)

CAGTATGAGTTAGTCTCTGGAGCTCCTAATACTTCATTAGTACTGCATGGACTGA
GTTAAAAGTTAATTCAAAATCTCAATTTATCCAAATCTGTTTCGTTCTTTCCAGGC
ACCACCCACCTATGATACTGTGCTACAGATGGAGTATCTTGACATGGTGGTGA
ATGAAAC→TG→ACTCAGATTATCCCAATTGCTATGAGAC→TTTGAGAGGGT
CTGCAAAAAAGATGTTGAGATCAATGGGATGTTCAATCCCAAAGGGGTGGTGG
TGATGATTCCAAGCTATGCTCTTCACCGTGACCCAAAGTACTGGACAGAGCCT
GAGAAGTTCCTCC→TTGAAAGGTACAAGGC→TCCCTGGGAAGGGAGCCCTC

Fig. 6 cont.

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CCTGAACCAGCCTGGTTCAAGCATATTCTGCCTCTCTTAATCTACAGGACAGTCA
TGTGGTTGTATAATTATTTGCTTGTATTTTTATATTTAGAGATTTTTTTAATCATCA
AATTGATTATTGTCACACTTTACAAACCATAGACTAGAAAAAAGAAAACTACAGTC
ATCCACAATTCCAACAACCTTACGATGAAGGTCATCAGTTATG

SEQ ID NO:162

Exon 12 (g.23081C>T)

CCTGTGTACTACTAGTTGAGGGGTGGCCCCTAAGTAAGAAACCCTAACATGTAA
CTCTTAGGGGTATTATGTCATTAACCTTTTTAAAAATCTACCAAC→TGTGGAACCA
GATTCAGCAAGAAGAACAAGGACAACATAGATCCTTACATATACACACCCTTT
GGAAGTGGACCCAGAAACTGCATTGGCATGAGGTTTGCTCTCATGAACATGAA
ACTTGCTCTAATCAGAGTCCTTCAGAACTTCTCCTTCAAACCTTGTAAGAAAC
ACAGGTTAGTCAATTTTCTATAAAAATAATGTTGTATTAATAATTCTTTAACTGA
GTGGTCTGTATTTTTTAAAAAGAATATGCTTGTTTAATCTTTTACTAATTTGTTCTC
TGGGCCAAAGAATCAATTAGGCCCATCTGTG

this oligonucleotide used for genotyping differs from the genomic sequence at the positions shown in italics

SEQ ID NO:163

Exon 13 (g.25925C>T; g.25958T>G)

GGAGTGTCTCACTCACTTTGATGCTATACTTTCTACTTTTGTTTATTTAATGCTTC
TCAATATGCTTGTTTAACTGTTGCAGATCCCCCTGAAATTAAGCTTAGGAGGAC
TTCTTCAACCAGAAAAACCCGTTGTTCTAAAGGTTGAGTCAAGGGATGGCAC
→TGTAAGTGGAGCCTGAATTTTCCTAAGGACTTCT→GGCTTTGCTCTTCAAGAA
ATCTGTGCCTGAGAACACCAGAGACCTCAAATTACTTTGTGAATAGAACTCTGAA
ATGAAGATGGGCTTCATCCA

Fig. 6 cont.